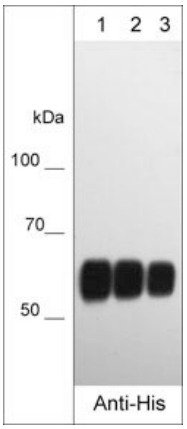
Anti-Mouse IgG1 specific:HRP

Goat Polyclonal

Cat. # MS3211
Size 100 µl

Background

An array of chromogenic, fluorogenic and chemiluminescent substrates are available for use with HRP conjugated secondary antibodies HRP is a 40 kDa protein that catalyzes the oxidation of substrates by hydrogen peroxide, resulting in a colored or fluorescent product or the release of light as a byproduct of the reaction. HRP functions optimally at a near-neutral pH and can be inhibited by cyanides, sulfides and azides. Antibody-HRP conjugates are superior to antibody-AP conjugates with respect to the specific activities of both the enzyme and antibody. In addition, its high turnover rate, good stability, low cost and wide availability of substrates makes HRP the enzyme of choice for most applications. HRP can be used for chemiluminescent readout in western blot, colorimetric readout in ELISA, and precipitation reactions useful in immunocytochemistry and immunohistochemistry.



Western blot of human recombinant DDR1 protein with C-terminal His Tag. The blot was probed with mouse monoclonal IgG1 isotype anti-His (C-terminal) Tag (HM0501) antibody at 1:2000, then probed with anti-Mouse IgG1 specific:HRP goat polyclonal at 1:2000 (lane 1), 1:4000 (lane 2), and 1:8000 (lane 3).

Background References

Mattson, DL & Bellehumeur, TG (1996) Anal Biochem. 240:306.
Madamanchi, NR & Runge, MS (2001) Methods Mol Med. 51:245.

Applications

ELISA	1:2000
WB	1:5000
ICC	1:1000
IHC	1:1000

End user should determine optimal dilution for their particular applications and experiments.
Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

Species Reactivity

Ms

Specificity

This antibody has been pre-adsorbed with various immunoglobulins from non-mouse species before affinity-purification using mouse IgG1 coupled to agarose beads. Purified donkey polyclonal antibody was conjugated to horseradish peroxidase (HRP). This secondary reagent can be used to detect mouse IgG1 immunoglobulins in various antibody applications that utilize HRP readouts, such as western blot, ELISA, immunocytochemistry, and immunohistochemistry.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Immunogen

The HRP-conjugated goat polyclonal secondary reagent reacts with the Fc portion of mouse IgG1, but does not detect other mouse IgG subclasses, IgM, or Fab portion of mouse immunoglobulins. The secondary reagent has minimal cross-reactivity with bovine, human, and rabbit immunoglobulins.

Buffer and Storage

Goat polyclonal antibody is supplied in 100µl phosphate-buffered saline, 50% glycerol, and 1 mg/ml BSA. Store at –20°C. Stable for 1 year. Note: Use of sodium azide as preservative substantially inhibits the enzyme activity of HRP.

Related Products

MS3001	Anti-Mouse Ig:HRP Donkey Polyclonal
MS3221	Anti-Mouse IgG2a specific:HRP Goat Polyclonal
MS3231	Anti-Mouse IgG2b specific:HRP Goat Polyclonal
MS3011	Anti-Mouse Ig:DyLight® 488 Goat Polyclonal
MS3031	Anti-Mouse Ig:DyLight® 594 Goat Polyclonal

www.ecmbio.com
info@ecmbio.com
toll-free: 1-800-859-8202
telephone: 859-879-2075

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